



DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY
AFFAIRS (PERA)

BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208

Miami, Florida 33175-2474

T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/pera

Sunshine Windows Manufacturing, Inc.

1745 W. 33rd Place

Hialeah, FL 33012

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "2000" Aluminum Single Hung Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. SH08-01, titled "Series 2000 Aluminum Single Hung Impact Resistant Glass", sheets 1 through 6 of 6, dated 04/02/08, with revision #1 dated 03/12/12, prepared by manufacturer, signed and sealed by Francisco Hernandez, P. E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises and renews NOA # 09-1217.05 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by Manuel Perez, P.E.



MP
5/10/12

NOA No. 12-0320.07
Expiration Date: April 24, 2018
Approval Date: May 17, 2012
Page 1

Sunshine Windows Manufacturing, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No **SH08-01**, Sheets 1 through 6 of 6, titled "Series 2000 Aluminum Single Hung Impact Resistant Glass", dated 04/02/08, with revision #1 dated 03/12/12, prepared by manufacturer, signed and sealed by Francisco Hernandez, P.E.

B. TESTS


1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94
along with marked-up drawings and installation diagram of a series 2000 aluminum single hung window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-5253**, dated 10/02/07, signed and sealed by Carlos S. Rionda, P. E.
(Submitted under previous NOA No.08-0219.03)
2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94
along with marked-up drawings and installation diagram of a series 2000 aluminum single hung window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-5252**, dated 08/17/07, signed and sealed by Carlos S. Rionda, P.E.
(Submitted under previous NOA No.08-0219.03)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2004 and FBC-2007, prepared by manufacturer, dated 12/22/07, signed and sealed by Francisco Hernandez, P. E.
(Submitted under previous NOA#09-1217.05)
2. Glazing complies with ASTM E1300-04

D. QUALITY ASSURANCE

1. Miami-Dade Department of Permitting, Environment, and Regulatory Affairs (PERA)


Manuel Perez, P.E.
Product Control Examiner
NOA No. 12-0320.07
Expiration Date: April 24, 2018
Approval Date: May 17, 2012

Sunshine Windows Manufacturing, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

E. MATERIAL CERTIFICATIONS


1. Notice of Acceptance No. **11-0624.01** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont Butacite® PVB Interlayer**" dated 09/08/11, expiring on 12/11/16.

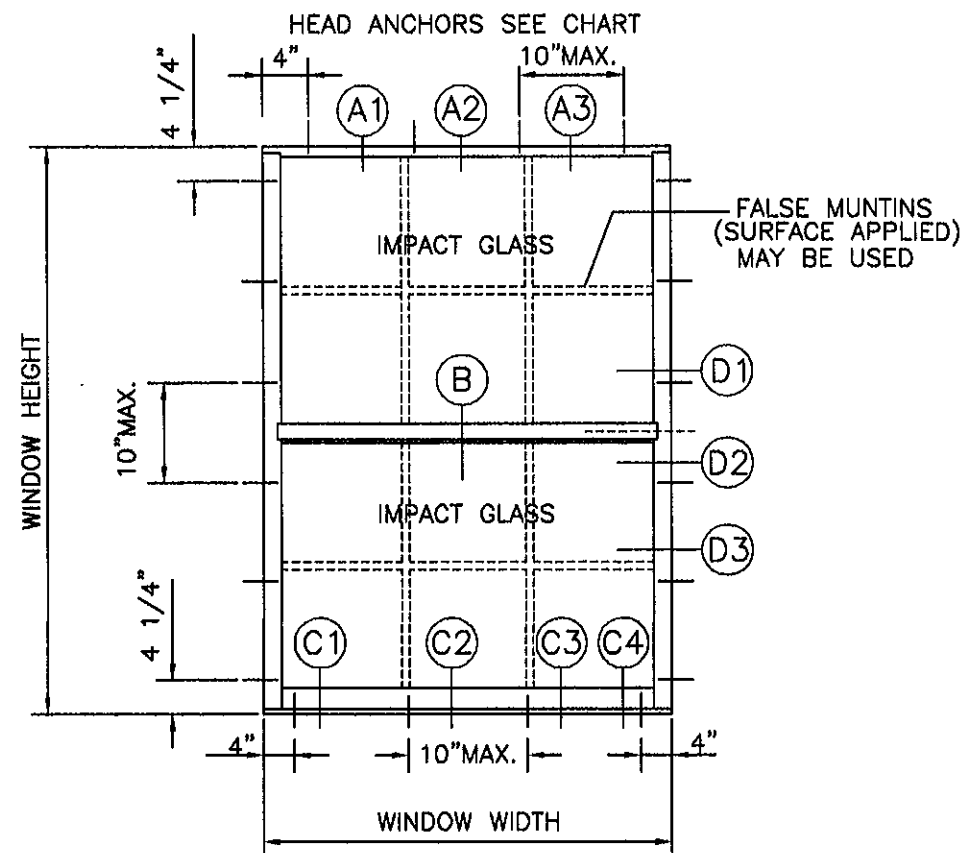
F. STATEMENTS

1. Statement letter of conformance, complying with FBC-2010, and of no financial interest, dated March 12, 2012, signed and sealed by Francisco Hernandez, P.E.
2. Laboratory compliance letter for Test Report No. **FTL-5252** issued by Fenestration Testing Laboratory, Inc., dated 08/28/07, signed and sealed by Carlos S. Rionda, P. E. *(Submitted under previous NOA No.08-0219.03)*
3. Laboratory compliance letter for Test Report No. **FTL-5253** issued by Fenestration Testing Laboratory, Inc., dated 10/10/07, signed and sealed by Carlos S. Rionda, P. E. *(Submitted under previous NOA No.08-0219.03)*

G. OTHERS

1. Notice of Acceptance No. **09-1217.05**, issued to Sunshine Windows Manufacturing, Inc. for their Series "2000 Aluminum Single Hung Window – L.M.I.", approved on 03/24/10 and expiring on 04/24/13.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 12-0320.07
Expiration Date: April 24, 2018
Approval Date: May 17, 2012



TYPICAL ELEVATION 1 OVER 1

GENERAL NOTES:

- 1.- THIS PRODUCT MEETS THE REQUIREMENTS OF THE 2010 FBC.
- 2.- SHUTTERS ARE NOT REQUIRED.
- 3.- FOR NUMBER OF ANCHORS FOR EACH UNIT SIZE REFER TO DESIGN PRESSURES CHART.
- 4.- FOR ATTACHMENT INTO CONCRETE OR MASONRY WITH 1 BY USE 1/4" DIAM. ULTACON BY ELCO WITH 1 1/4" MIN. EMBEDMENT INTO CONCRETE/MASONRY AND 2 1/2" MIN. EDGE DISTANCE. FOR ATTACHMENT INTO 2 BY OR WOODEN STRUCTURE USE 1/4" DIAM. ULTACON BY ELCO WITH 1 1/2" MIN. EMBEDMENT INTO WOOD AND 1" MIN. EDGE DISTANCE. FOR ATTACHMENT INTO METAL USE 1/4" DIAM. GRADE 5 SHEET METAL SCREWS WITH 1" MIN. EDGE DISTANCE.
- 5.- CONCRETE STRENGTH $f'_c=3,200$ psi MIN., CMU PER ASTM C90, FILLED CMU $f_m=2,000$ psi MIN.
- 6.- USE NON SHRINK NON METALLIC GROUT 3 KSI MIN. AS REQUIRED.
- 7.- WOOD HOST STRUCTURE SHALL BE "SOUTHERN YELLOW PINE" $G=0.55$ OR GREATER DENSITY.
- 8.- THE THICKNESS OF THE STEEL/ALUMINUM HOST STRUCTURE SHALL BE NO LESS THAN 1/8". ALUMINUM SHALL BE 6063-T6. STEEL SHALL BE $F_y=36$ KSI MIN.
- 9.- WOOD BUCKS (BY OTHERS) SHALL BE PROPERLY ATTACHED TO TRANSFER GLAZING SYSTEM LOADS TO THE STRUCTURE AND SHALL BE APPROVED BY BUILDING OFFICIAL PRIOR TO WINDOW INSTALLATION.
- 10.- ALUMINUM IN CONTACT WITH DISSIMILAR MATERIALS SHALL BE PROTECTED (BY OTHERS) AS SPECIFIED IN SECTION 2003.8.4 OF THE 2010 FBC.

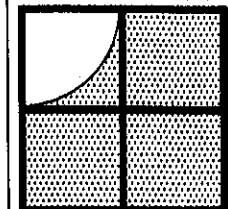
GLASS:

0.340" OVERALL LAMINATED GLASS USING TWO LITES OF 0.125" HEAT STRENGTHENED GLASS WITH A 0.090" INTERLAYER FILM DUPONT BUTACITE PVB, BETWEEN THE TWO LITES OF GLASS. LAMINATED BY TECNOGLASS.

DESIGN PRESSURES CHART - PSF					
WINDOW DIMENSION		ANCHOR SCHEDULE		DISIGN PRESSURE-PSF	
WIDTH	HEIGHT	PER HEAD AND SILL	PER JAMB	EXT.	INT.
19 1/8"	26"	3	3	90.0	90.0
26 1/2"		3		90.0	90.0
37"		4		90.0	90.0
53 1/8"		6		75.0	75.0
19 1/8"	38 3/8"	3	4	90.0	90.0
26 1/2"		3		90.0	90.0
37"		4		90.0	90.0
53 1/8"		6		75.0	75.0
19 1/8"	50 5/8"	3	6	90.0	90.0
26 1/2"		3		90.0	90.0
37"		4		90.0	90.0
53 1/8"		6		75.0	75.0
19 1/8"	63"	3	7	75.0	75.0
26 1/2"		3		75.0	75.0
37"		4		75.0	75.0
53 1/8"		6		75.0	75.0
19 1/8"	74 1/4"	3	8	75.0	75.0
26 1/2"		3		75.0	75.0
37"		4		75.0	75.0
53 1/8"		6		75.0	75.0

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 12-0320.07
Expiration Date APRIL 24, 2018
By *Manuel Perez*
Miami Dade Product Control

Francisco Hernandez
3-12-12
FRANCISCO HERNANDEZ
FLORIDA PE # 51393

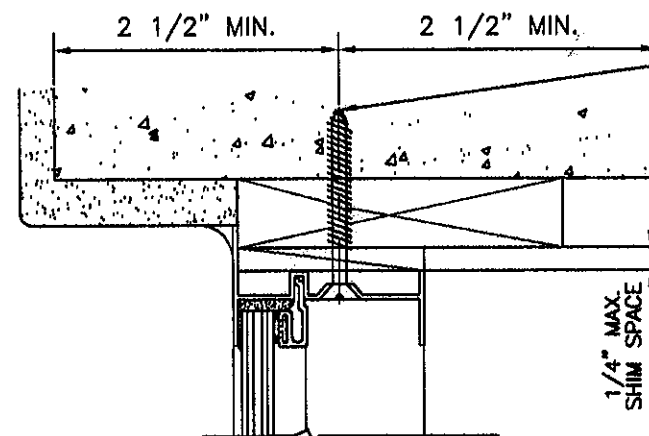


Sunshine Windows
Manufacturing, Inc.
1745 W. 33rd Place
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Ph: (305)384-9852
Fax: (305)828-5118

SERIES 2000 ALUMINUM
SINGLE HUNG
IMPACT RESISTANT GLASS

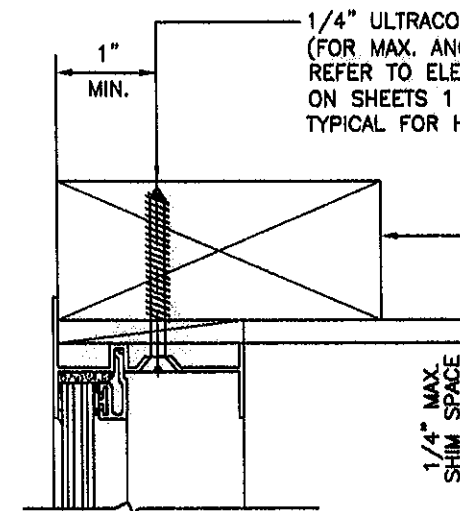
DATE	REVISION	UPDATED FOR 2010 FBC
1 03-12-12		

DRAWING No.
SH08-01
DATE: 04-02-08
SCALE: 1/2"=1"
SHEET 1 OF 6



1/4" ULTRACON 1 1/4" MIN. EMBEDMENT INTO MASONRY THROUGH 1 BY WOOD BUCK.
(FOR MAX. ANCHOR SPACING AND NUMBER OF ANCHORS REFER TO ELEVATION AND DESIGN PRESSURES CHART ON SHEETS 1 OF 6).
TYPICAL FOR HEAD.

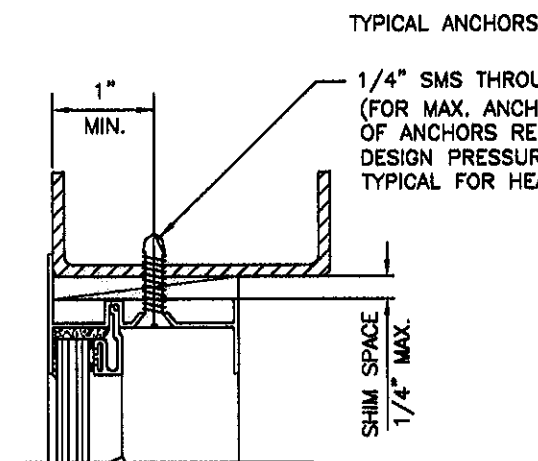
DETAIL A1
ATTACHMENT TO MASONRY



1/4" ULTRACON 1 1/2" MIN. PENETRATION INTO WOOD.
(FOR MAX. ANCHOR SPACING AND NUMBER OF ANCHORS REFER TO ELEVATION AND DESIGN PRESSURES CHART ON SHEETS 1 OF 6).
TYPICAL FOR HEAD.

2 BY WOOD BUCK BY OTHERS.
MUST BE PROPERLY ATTACHED TO TRANSFER GLAZING SYSTEM LOADS TO THE STRUCTURE. SHALL BE APPROVED BY BUILDING OFFICIAL PRIOR TO WINDOW INSTALLATION.

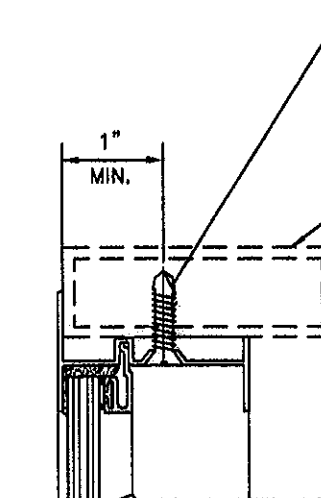
DETAIL A2
ATTACHMENT TO WOOD



TYPICAL ANCHORS

1/4" SMS THROUGH METAL.
(FOR MAX. ANCHOR SPACING AND NUMBER OF ANCHORS REFER TO ELEVATION AND DESIGN PRESSURES CHART ON SHEET 1 OF 6).
TYPICAL FOR HEAD.

DETAIL A3
ATTACHMENT TO METAL STRUCTURE DETAIL
(STEEL OR ALUMINUM 1/8" MIN. THICKNESS)



1/4" SMS THROUGH METAL.
(FOR MAX. ANCHOR SPACING AND NUMBER OF ANCHORS REFER TO ELEVATION AND DESIGN PRESSURES CHART ON SHEET 1 OF 6).
TYPICAL FOR HEAD.

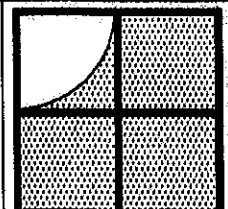
MIAMI-DADE COUNTY APPROVED MULLION. (UNDER SEPARATE APPROVAL)

DETAIL A4
ATTACHMENT TO MULLION
(STEEL OR ALUMINUM 1/8" MIN. THICKNESS)

TYPICAL HEAD SECTIONS

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 12-0320.07
Expiration Date April 24, 2018
By *Francisco Hernandez*
Miami Dade Product Control

Francisco Hernandez
3-12-12
FRANCISCO HERNANDEZ
FLORIDA PE # 51393

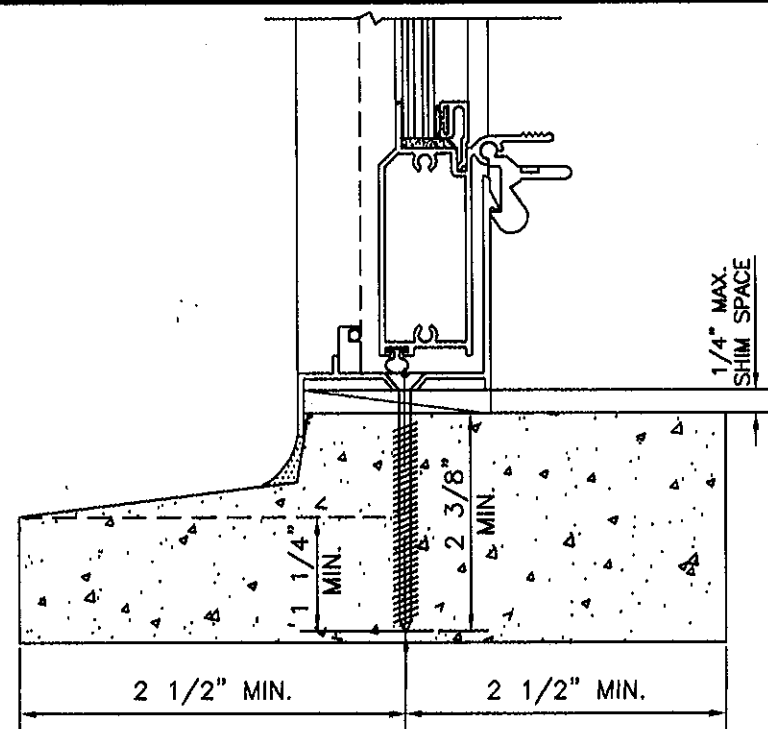


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SERIES 2000 ALUMINUM
SINGLE HUNG
IMPACT RESISTANT GLASS

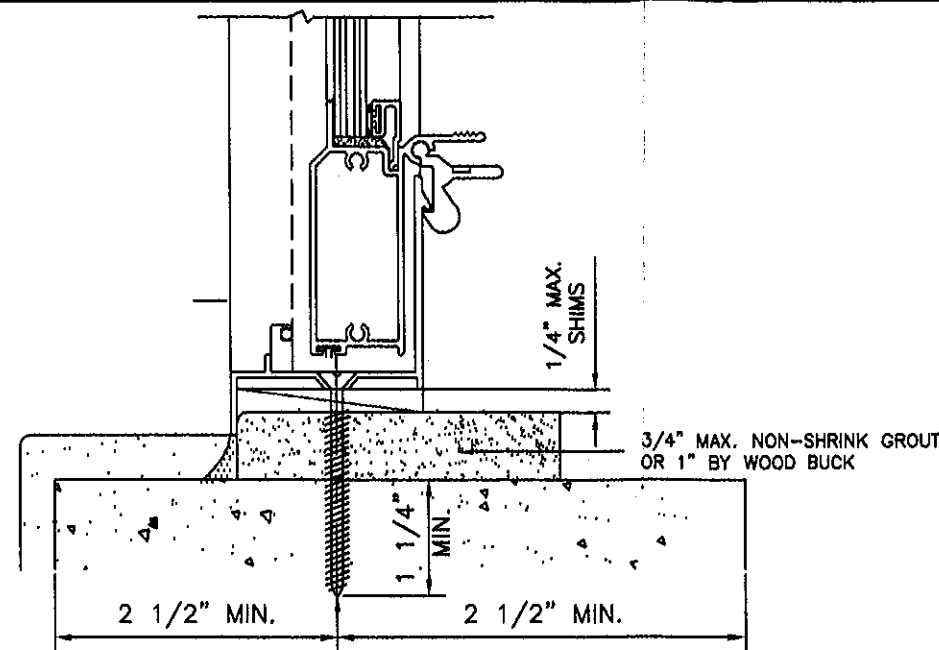
No	DATE	REVISION
1	03-12-12	UPDATED FOR 2010 FBC

DRAWING No.
SH08-01
DATE: 04-02-08
SCALE: 1/2"=1"
SHEET 2 OF 6



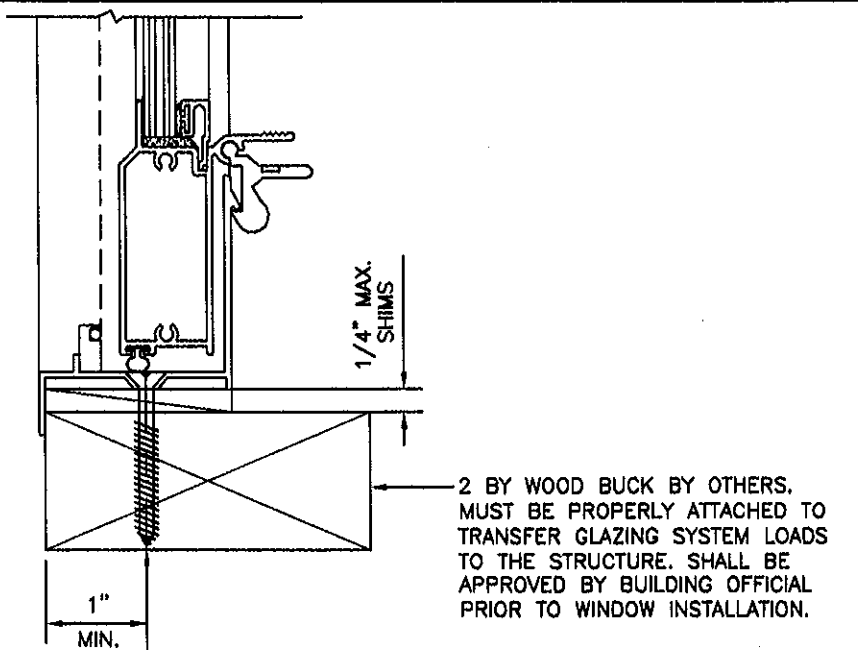
1/4" ULTRACON 1 1/4" MIN. EMBEDMENT INTO MASONRY (FOR MAX. ANCHOR SPACING AND NUMBER OF ANCHORS REFER TO ELEVATION AND DESIGN PRESSURE CHART ON SHEETS 1 OF 6). TYPICAL FOR SILL ONLY.

DETAIL C1
ATTACHMENT TO PRE-CAST SILL



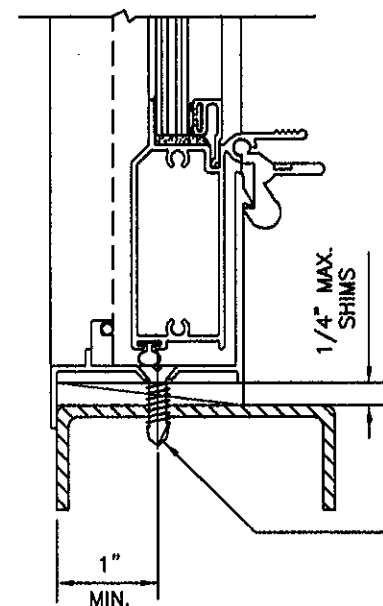
1/4" ULTRACON 1 1/4" MIN. EMBEDMENT INTO MASONRY THROUGH 1" BY WOOD BUCK OR NON-SHRINK NON-METALLIC GROUT (FOR MAX. ANCHOR SPACING AND NUMBER OF ANCHORS REFER TO ELEVATION AND DESIGN PRESSURES CHART ON SHEET 1 OF 6). TYPICAL FOR SILL ONLY.

DETAIL C2
ATTACHMENT TO MASONRY

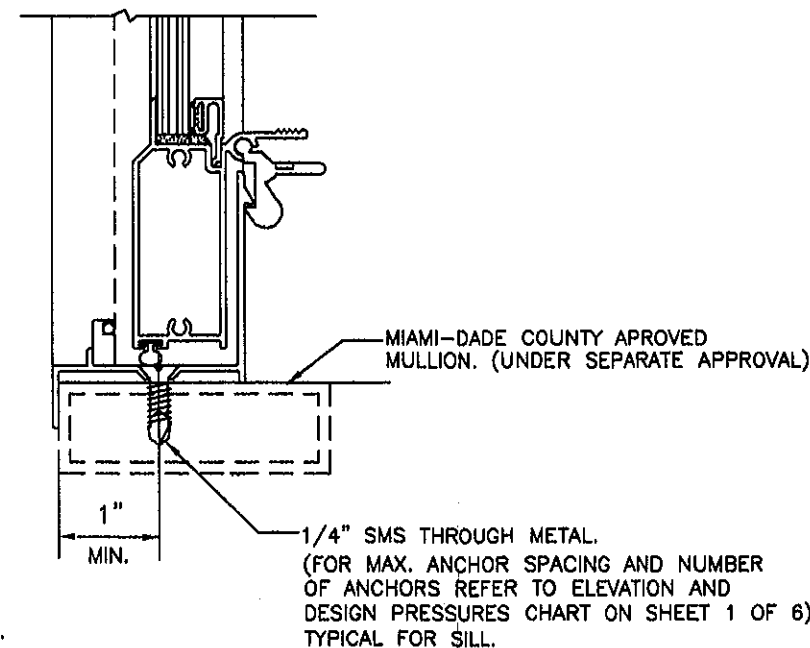


1/4" ULTRACON 1 1/2" MIN. PENETRATION INTO WOOD. (FOR MAX. ANCHOR SPACING AND NUMBER OF ANCHORS REFER TO ELEVATION AND DESIGN PRESSURES CHART ON SHEET 1 OF 6). TYPICAL FOR SILL.

DETAIL C3
ATTACHMENT TO WOOD



DETAIL C4
ATTACHMENT TO METAL STRUCTURE
(STEEL OR ALUMINUM 1/8" MIN. THICKNESS)

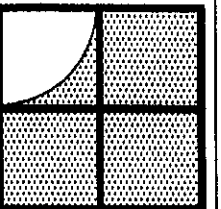


DETAIL C5
ATTACHMENT TO MULLION
(STEEL OR ALUM. 1/8" MIN. THICKNESS)

TYPICAL SILL SECTIONS

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 17-0320.07
Expiration Date April 24, 2018
By *Mamuel Perez*
Miami Dade Product Control

Francisco Hernandez
3-12-12
FRANCISCO HERNANDEZ
FLORIDA, PE # 51393



Sunshine Windows
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Ph: (305)364-9952
Fax: (305)828-5118

**SERIES 2000 ALUMINUM
SINGLE HUNG
IMPACT RESISTANT GLASS**

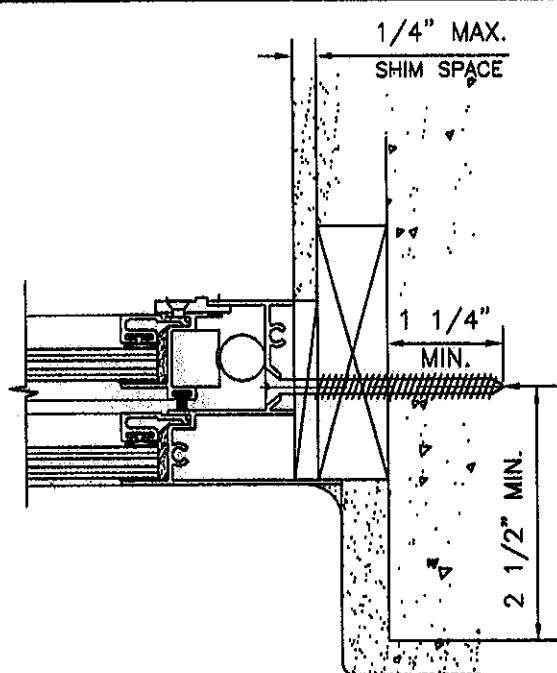
No.	DATE	REVISION
1	03-12-12	UPDATED FOR 2010 FBC

DRAWING No.
SH08-01

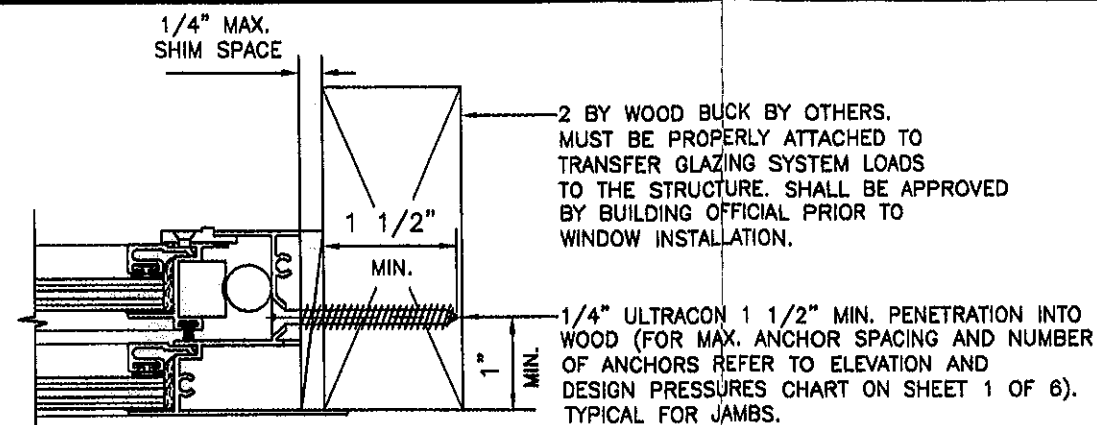
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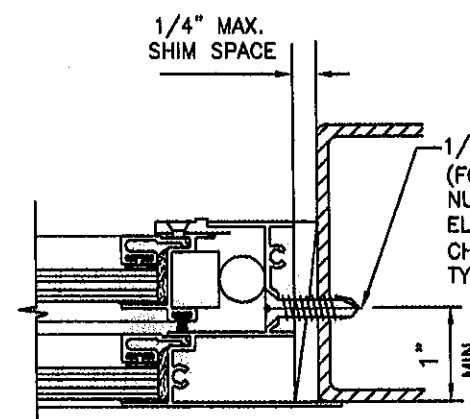
SHEET 3 OF 6



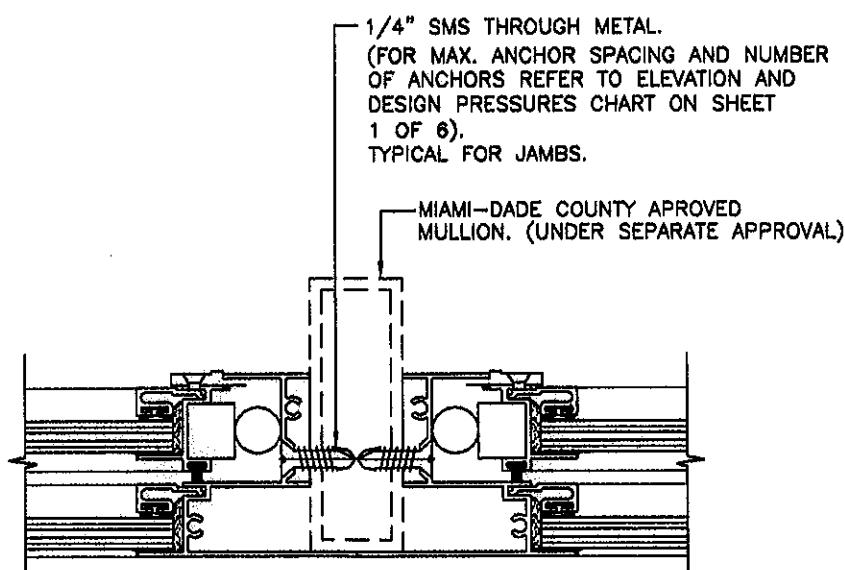
DETAIL D1
ATTACHMENT TO MASONRY



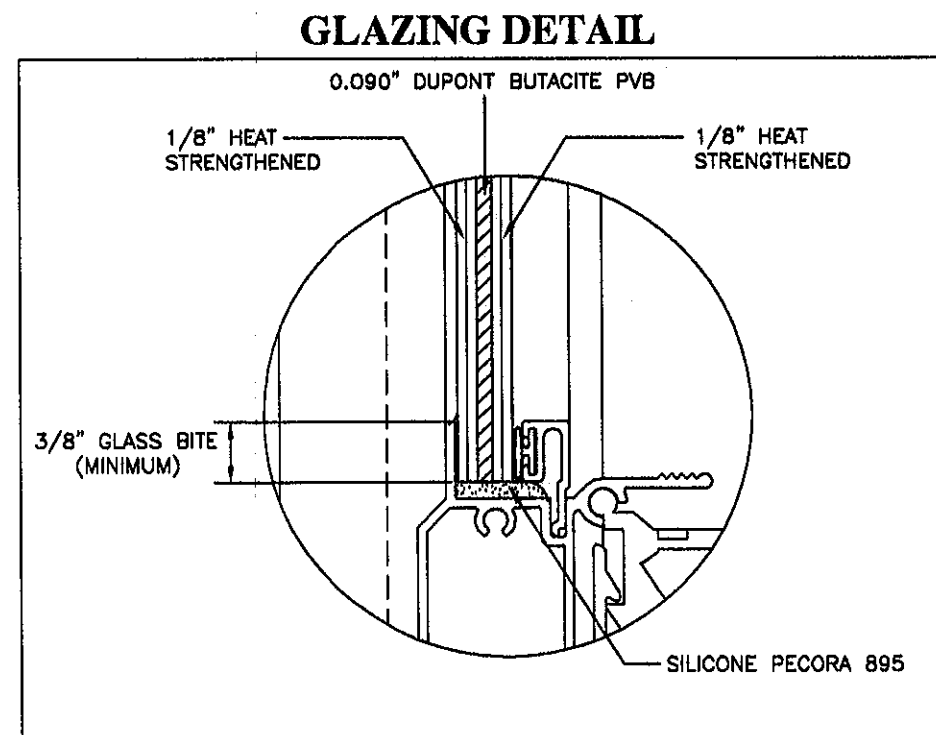
DETAIL D2
ATTACHMENT TO WOOD



DETAIL D3
ATTACHMENT TO METAL STRUCTURE
(STEEL OR ALUMINUM 1/8" MIN. THICKNESS)



DETAIL D4
ATTACHMENT TO MULLION



TYPICAL JAMB SECTIONS

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 12-0320.07
Expiration Date APRIL 24, 2018
By *Francisco Hernandez*
Miami Dade Product Control

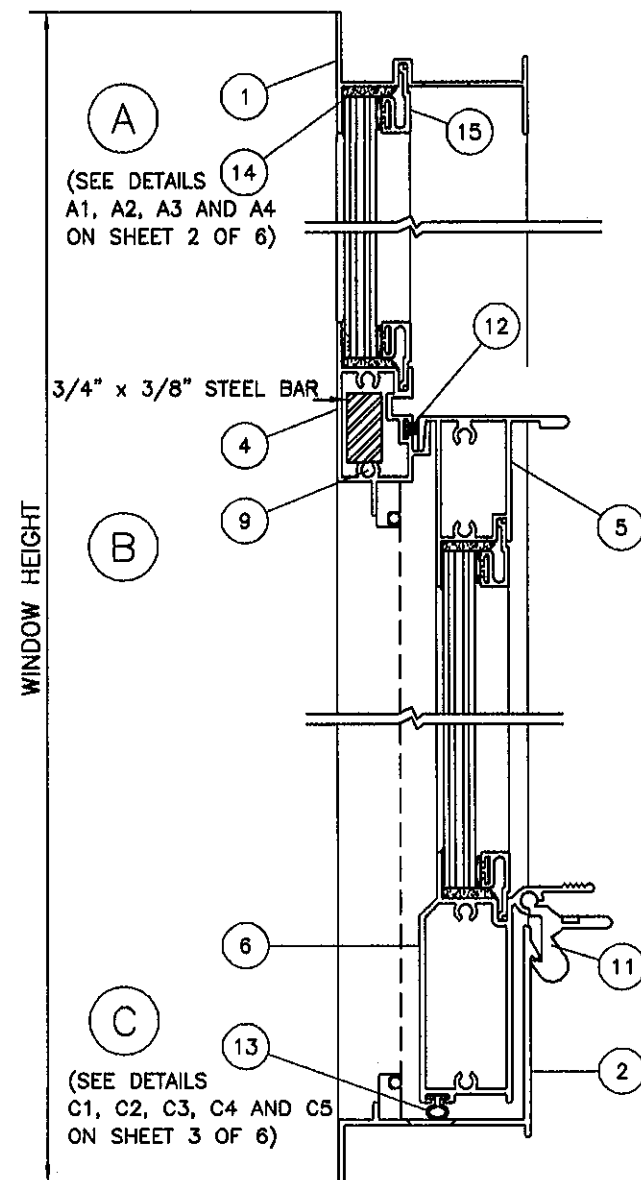
FH
3-12-12
FRANCISCO HERNANDEZ
FLORIDA PE # 51393

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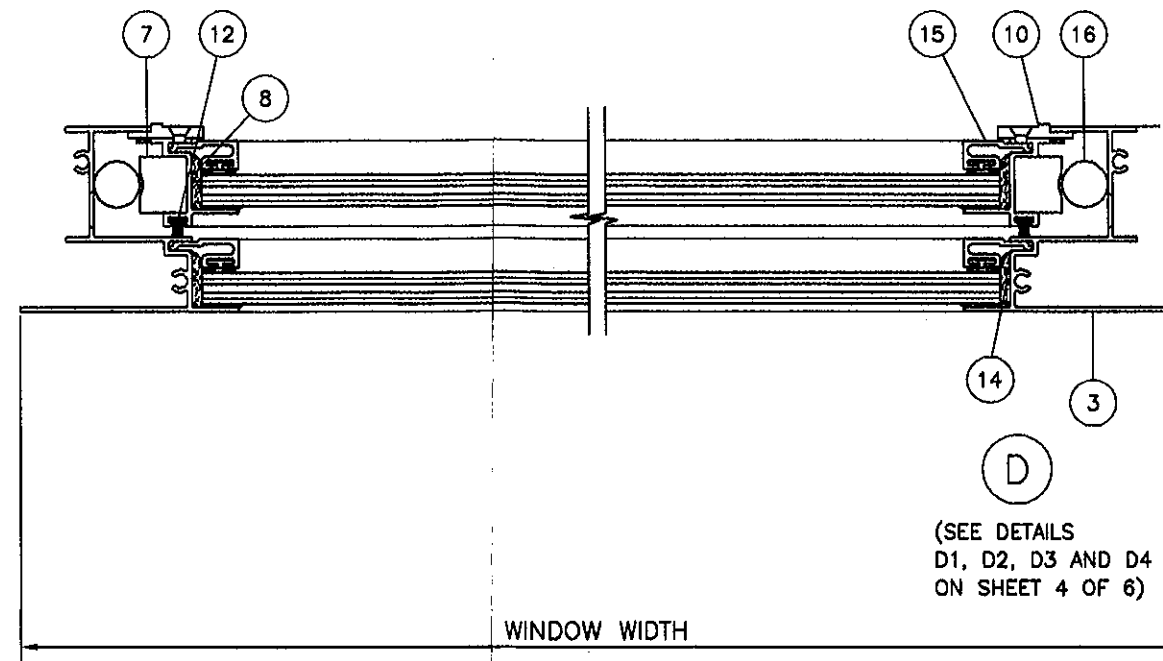
SERIES 2000 ALUMINUM
SINGLE HUNG
IMPACT RESISTANT GLASS

NO	DATE	REVISION
1	03-12-12	UPDATED FOR 2010 FBC

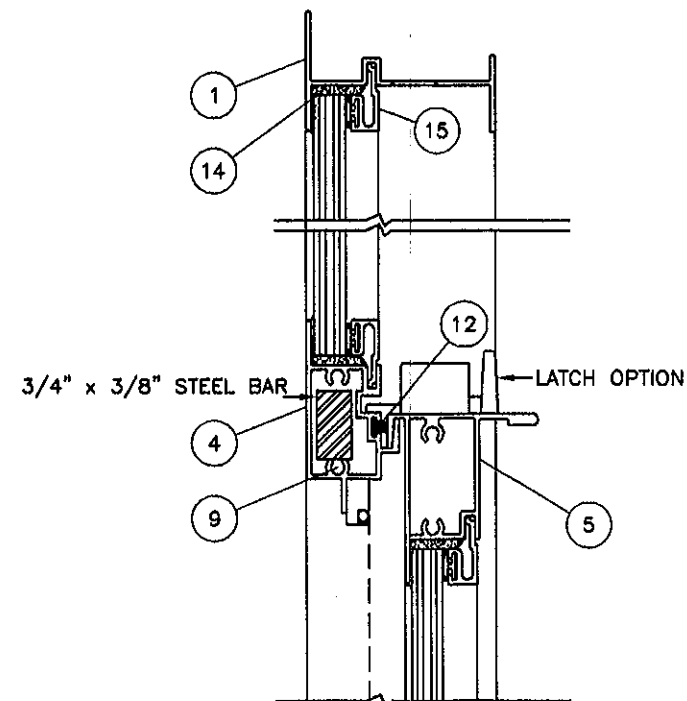
DRAWING No.
SH08-01
DATE: 04-02-08
SCALE: 1/2"=1"
SHEET 4 OF 6



VERTICAL SECTION



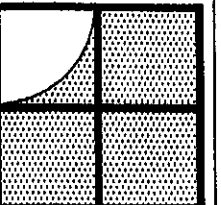
HORIZONTAL SECTION



VERTICAL SECTION WITH TOP LOCK

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 12-0320.07
Expiration Date SEP 24, 2018
By Francisco Hernandez
Miami/Dade Product Control

Francisco Hernandez
3-12-12
FRANCISCO HERNANDEZ
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**SERIES 2000 ALUMINUM
SINGLE HUNG
IMPACT RESISTANT GLASS**

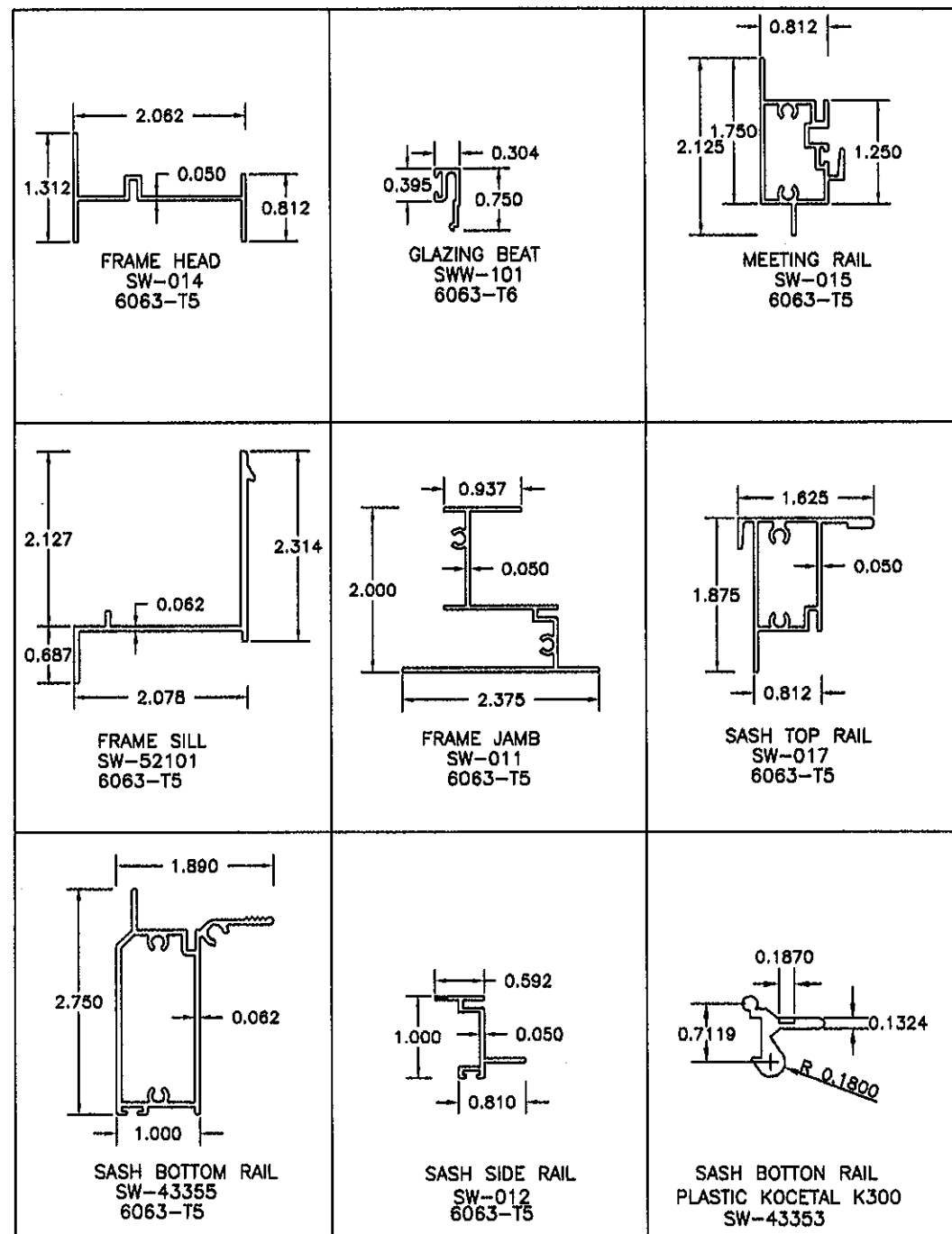
No	DATE	REVISION
1	03-05-12	UPDATED FOR 2010 FBC

DRAWING No.
SH08-01

DATE: 04-02-08

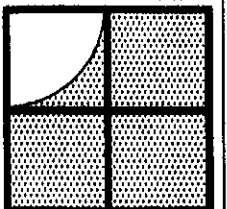
SCALE: 1/2"=1"

SHEET 5 OF 6



MATERIAL LIST

ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL
1	SW-014	1	FRAME HEAD	6063-T5
2	SW52101	1	FRAME SILL	6063-T5
3	SW-011	2	FRAME JAMB	6063-T5
4	SW40111	1	MEETING RAIL	6063-T5
5	SW-017	1	SASH TOP RAIL	6063-T5
6	SW43355	1	SASH BOTTOM RAIL	6063-T5
7	SW8202B	2	SASH CAM	NYLON
8	SW-012	2	SASH SIDE RAIL	6063-T5
9	SW-AS	AS REQ	ASSEMBLY SCREWS	# 8X1" PH PHILLIP CRS
10	SW8202A	4/VENT	FACE GUIDES	NYLON
11	SW43353	2/VENT	LATCH BOTTOM RAIL	PLASTIC
12	SW1820	AS RQD	SEAL PILE	FELT
13	SW3257	AS RQD	WEATHER STRIP BULB	VINYL
14	-	AS RQD	SILICONE	DC-899/GE-1200
15	SWW101	AS RQD	GLAZING BEAD	6063-T6
16	SW540	2	SPIRAL BALANCE	ALUMINUM
17	SW-667	2/VENT	LATCH	ZINC
18	SW3082	AS RQD	WEATHER STRIP BULB	VINYL



Sunshine Windows
Manufacturing, Inc.
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Hialeah, Florida 33012
Ph: (305)364-9952
Fax: (305)828-5118

SERIES 2000 ALUMINUM SINGLE HUNG IMPACT RESISTANT GLASS

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 12-0320-07
Expiration Date APRIL 24, 2018
By *Manuel Perez*
Miami Dade Product Control

Francisco Hernandez
3-12-12

FRANCISCO HERNANDEZ
FLORIDA PE # 51393

REVISION
NO DATE
1 03-05-12 NO CHANGE THIS SHEET

DRAWING No.
SH08-01

DATE: 04-02-08

SCALE: 1/2"=1"

SHEET 6 OF 6